Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/677,395	LETANT ET AL.	
Examiner	Art Unit	
Robert T. Crow	1634	

	Robert 1. Clow	1034		
The MAILING DATE of this communication appe	ars on the cover sheet with the c	correspondence add	ress	
THE REPLY FILED <u>10 June 2008</u> FAILS TO PLACE THIS APP	LICATION IN CONDITION FOR A	LLOWANCE.		
1. The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Appelor Continued Examination (RCE) in compliance with 37 Coperiods:	replies: (1) an amendment, affidavi eal (with appeal fee) in compliance	t, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request	
a) The period for reply expiresmonths from the mailing	date of the final rejection.			
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire la	dvisory Action, or (2) the date set forth ater than SIX MONTHS from the mailing	g date of the final rejection	n.	
Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(1	f).			
Extensions of time may be obtained under 37 CFR 1.136(a). The date of have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	ension and the corresponding amount hortened statutory period for reply origi	of the fee. The appropria nally set in the final Offic	ate extension fee e action; or (2) as	
2. ☐ The Notice of Appeal was filed on A brief in comp	liance with 37 CFR 41.37 must be t	filed within two month	s of the date of	
filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed wi	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of the		
<u>AMENDMENTS</u>				
3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will <u>not</u> be entered because (a) They raise new issues that would require further consideration and/or search (see NOTE below);				
(b) They raise the issue of new matter (see NOTE below	**			
(c) ☐ They are not deemed to place the application in better appeal; and/or			ne issues for	
(d) ☐ They present additional claims without canceling a c	corresponding number of finally reje	ected claims.		
NOTE: (See 37 CFR 1.116 and 41.33(a)).				
4. L The amendments are not in compliance with 37 CFR 1.12		mpliant Amendment (PTOL-324).	
5. Applicant's reply has overcome the following rejection(s):				
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 			_	
7. For purposes of appeal, the proposed amendment(s): a) [how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows: Claim(s) allowed: None. Claim(s) objected to: None. Claim(s) rejected: 1-9 and 12-18.		l be entered and an e	xplanation of	
Claim(s) rejected: 1-9 and 12-10. Claim(s) withdrawn from consideration: 10 and 11.				
AFFIDAVIT OR OTHER EVIDENCE				
8. The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).				
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary	vercome <u>all</u> rejections under appea	al and/or appellant fail	s to provide a	
10. ☐ The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after er	ntry is below or attach	ed.	
11. The request for reconsideration has been considered but See Continuation Sheet.	t does NOT place the application in	condition for allowan	ce because:	
12. Note the attached Information <i>Disclosure Statement</i> (s). (PTO/SB/08) Paper No(s).				
13. ☑ Other: Notice of References Cited.				
	/Diana B. Johannsen/ Primary Examiner, Art U	nit 1634		

Continuation of 11. does NOT place the application in condition for allowance because: Applicant's arguments filed 10 June 2008 (i.e., the "Remarks") have been fully considered but they are not persuasive for the reason(s) listed below.

A. Applicant argues on page 6 of the Remarks that the examiner has failed to establish that DNA polymerase I (i.e., the Pol I polymerase of Branton et al) comprises functional groups because Stryer fails to teach DNA polymerase I is a protein.

However, Branton et al specifically teaches the crosslinking of the polymerase to the aperture forms a protein solid-state complex (pages 38, lines 24-30). Thus, a thorough review of Branton et al clearly indicates that DNA polymerase is a protein.

In addition, to further aid in Applicant's understanding of the prior art, the examiner has included pages 17 and 576 of Stryer. Page 576 clearly states that DNA polymerase 1 is a polypeptide (i.e., protein). Page 17 of Stryer further teaches that polypeptides are formed from amino acids, which, as stated in the previous Office Action, have functional groups.

Thus, the examiner asserts that the DNA polymerase I of Branton et al is, in fact, a protein and does, in fact, comprise functional groups, and that, in fact, the rejections is not based on "probabilities or possibilities" as argued by Applicant.

B. Applicant argues on pages 8-9 of the Remarks that no showing of a substitution of the ring of Hagar for the polymerase of Branton et al would work or allow the device of Branton et al to operate because the crosslinkers may not couple to the molecule of Hoger, the diameter of the molecule of Hoger may change, single stranded DNA may not pass through the aperture, and that the invention may not work.

However, it is noted that Branton et al specifically teach the use of electrodes to induce a polymer to traverse from one side of the membrane (i.e., containing the aperture) to the other side of the membrane (page 25-, line 30-page 26, line 10). Thus, the teaching of a polymerase as a molecular motor merely represents a single embodiment of the apparatus of Branton et al.

In addition, Hoger clearly suggests the construction of rigid macrocycles whose diameters do not change (page 2686, column 1, last paragraph). Also, as stated in the previous rejections, Hoger also clearly teaches that macro-cycles are host molecules that recognize guest molecules by precise complementarity (page 2687, column 2, lines 19-25) and can act as artificial enzymes (page 2687, last two lines-page 2688, first two lines).

In addition, MPEP 716.01(c) makes clear that "The arguments of counsel cannot take the place of evidence in the record" (In re Schulze, 346 F.2d 600, 602, 145 USPQ 716, 718 (CCPA 1965)). Thus, Applicant's arguments that the various parameters listed above are not predictable cannot take the place of evidence in the record.

Finally, the Response above should not be construed as an invitation to file an after final declaration. See MPEP 715.09 [R-3].

C. Applicant argues on page 9 and on pages 10-11 of the Remarks that page 2689 of Hoger states that precursors couple to the solid substrate couple together, voiding the reaction that creates the ring, thus teaching away from immobilization of the rigs to a solid support.

However, Applicant's citation is directed specifically to solid state reactions of precursors of macrocyclic ring, nor the preformed ring itself. Thus, Applicant's citation has no bearing on the attachment of a preformed ring onto a solid substrate after formation of the ring.

D. On page 11 of the Remarks, Applicant reiterates the argument that Branton et al relies on DNA polymerase as a biological motor.

However, as noted above, Branton et al specifically teach the use of electrodes to induce a polymer to traverse from one side of the membrane (i.e., containing the aperture) to the other side of the membrane (page 25-, line 30-page 26, line 10). Thus, the teaching of a polymerase as a molecular motor merely represents a single embodiment of the apparatus of Branton et al.

E. Applicant's remaining arguments rely on the alleged deficiencies of Branton et al, which are discussed above. Because the arguments regarding Branton et al were not persuasive, the previous rejections are maintained.

/Robert T. Crow/ Examiner. Art Unit 1634.